

# SIDDHANT GARG

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## WORK EXPERIENCE

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**Amazon Alexa AI** | Applied Scientist

Jun 2020 – Present

Question understanding models for improving efficiency of Alexa's open-domain QA system. Answer ranking and generation QA models as part of a web question answering pipeline for Alexa. Supervised 2 research intern projects.

**Amazon Alexa AI** | Applied Scientist Intern | Advisor: Alessandro Moschitti

Jun 2019 – Sep 2019

Sequential transformer fine-tuning techniques for answer selection via a new large noise-free dataset (ASNQ).

Results on WikiQA & TrecQA beating previous SOTA by ~10% rel. Research paper accepted at AAAI '20 (Oral).

**EPFL, Switzerland** | Research Intern | Advisor: James Larus

May 2017 – Aug 2017

Using Intel Processor Trace (PT) for automated debugging by getting the control flow information for an execution

**TU Braunschweig, Germany** | Research Intern | Advisor: Sandor Fekete

May 2016 – Aug 2016

New competitive ratio lower bound for minimizing exploration time of an unknown tree by a swarm of k robots.

## SELECTED FIRST-AUTHOR PUBLICATIONS

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- **Will this Question be Answered? Question Filtering via Answer Model Distillation for Efficient QA**  
*Siddhant Garg, Alessandro Moschitti* • [Paper] [Slides] [Poster] **EMNLP 2021(Oral)**
- **TANDA: Transfer and Adapt Pre-Trained Transformer Models for Answer Sentence Selection**  
*Siddhant Garg, Thuy Vu, Alessandro Moschitti* • [Paper] [Code] [Blog] [Slides] **AAAI 2020(Oral)**
- **BAE: BERT-based Adversarial Examples for Text Classification**  
*Siddhant Garg\*, Goutham Ramakrishnan\** • [Paper] [Code] [Blog] [Slides] [Video] **EMNLP 2020**
- **Surprisingly Easy Hard-Attention for Sequence to Sequence Learning**  
*Shiv Shankar\*, Siddhant Garg\*, Sunita Sarawagi* • [Paper] [Code] [Slides] [Video] **EMNLP 2018(Oral)**
- **Functional Regularization for Representation Learning: A Unified Theoretical Perspective**  
*Siddhant Garg, Yingyu Liang* • [Paper] [Code] [Slides] [Video] **NeurIPS 2020**

## EDUCATION

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**University of Wisconsin Madison**

Aug 2018 – May 2020

*MS (Thesis) Computer Science • CGPA: 3.96/4.0 • Advisor: Prof. Yingyu Liang*

*Madison, WI, USA*

**Indian Institute of Technology (IIT) Bombay**

Jul 2014 – May 2018

*B.Tech. Computer Science & Engineering • CGPA: 9.59/10.0 • Advisor: Prof. Sunita Sarawagi*

*Mumbai, MH, India*

## ACADEMIC SERVICES AND AWARDS

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**Conference & Journal Reviewer:** EMNLP '19 '20 (**Outstanding Reviewer**) '21, ACL '20 '21 (**Outstanding Reviewer**), NAACL '21, NeurIPS '20 (**Top 10% of Reviewers**) '21, ICML '21 (**Top 10% of Reviewers**), ICLR '22, AAAI '20 '21, ACL Rolling Review (Nov'21 - Mar'22), SIGIR '21, ESANN '20, JAIR, IEEE TNNLS

**Teaching Assistant:** Artificial Intelligence (CS540) Fall'18, Computer Programming(CS101) Spring'18, Computer Architecture (CS305) Fall'17, Data Analysis and Interpretation(CS215) Fall'16

**Talks:** Midwest ML Symposium Madison '19, VLSC meet at EPFL Lausanne '17, Friedrich Gauss Fakultät at TUB '16

**Scholarships:** Awarded Graduate Scholarship '18 at UW Madison (Top 2%), KVPY Fellowship - Dept. of Science & Technology Govt. of India '13, NTSE Scholarship - Dept. of Science & Technology Govt. of India '10

**Achievements:** All India Rank 9 in KVPY '13 among 3 lakh candidates, All India Rank 191 in JEE Advance '14 among 1.5 lakh selected candidates, Best Social Impact Project at Tech and RnD Expo IIT Bombay '15.

## OTHER PEER-REVIEWED FIRST-AUTHOR PAPERS

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- Towards Robustness to Label Noise in Text Classification via Noise Modeling • [Paper] [Code] [Video] **CIKM 2021**
- Beyond Fine-tuning: Few-Sample Sentence Embedding Transfer • [Paper] [Video] [Slides] **AAACL-IJCNLP 2020**
- Can Adversarial Weight Perturbations Inject Neural Backdoors? • [Paper] [Code] [Video] **CIKM 2020**
- Stochastic Bandits with Delayed Composite Anonymous Feedback • [Paper] [Poster] **NeurIPS 2019 MLWG**